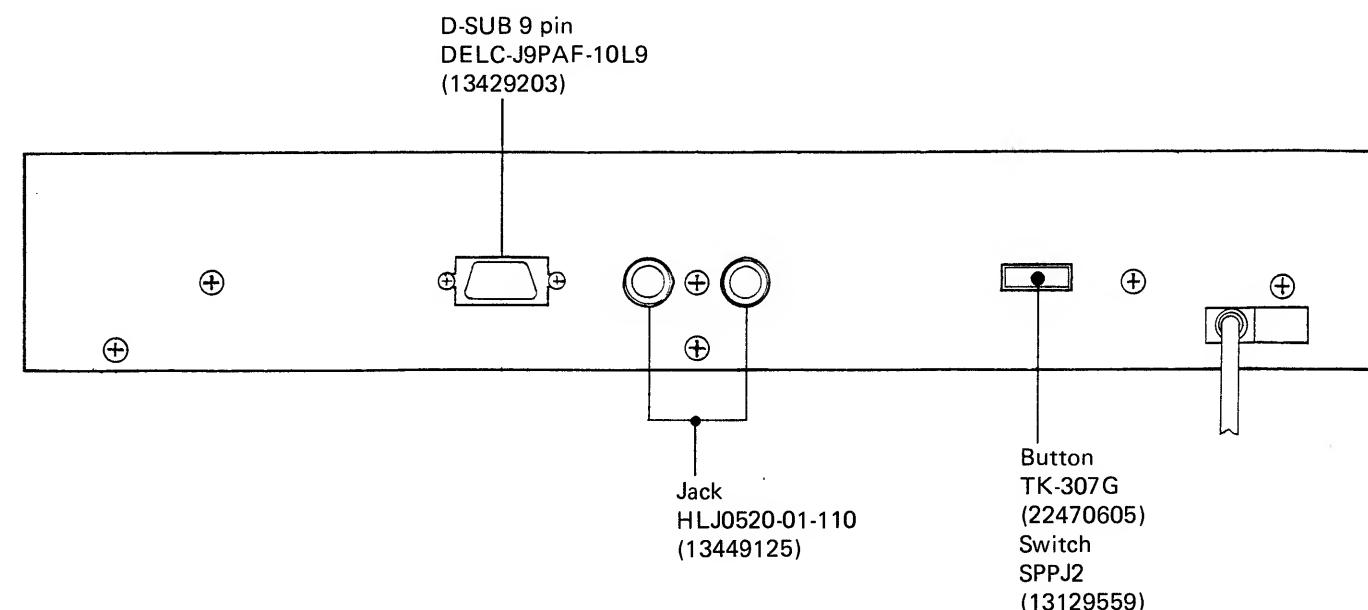
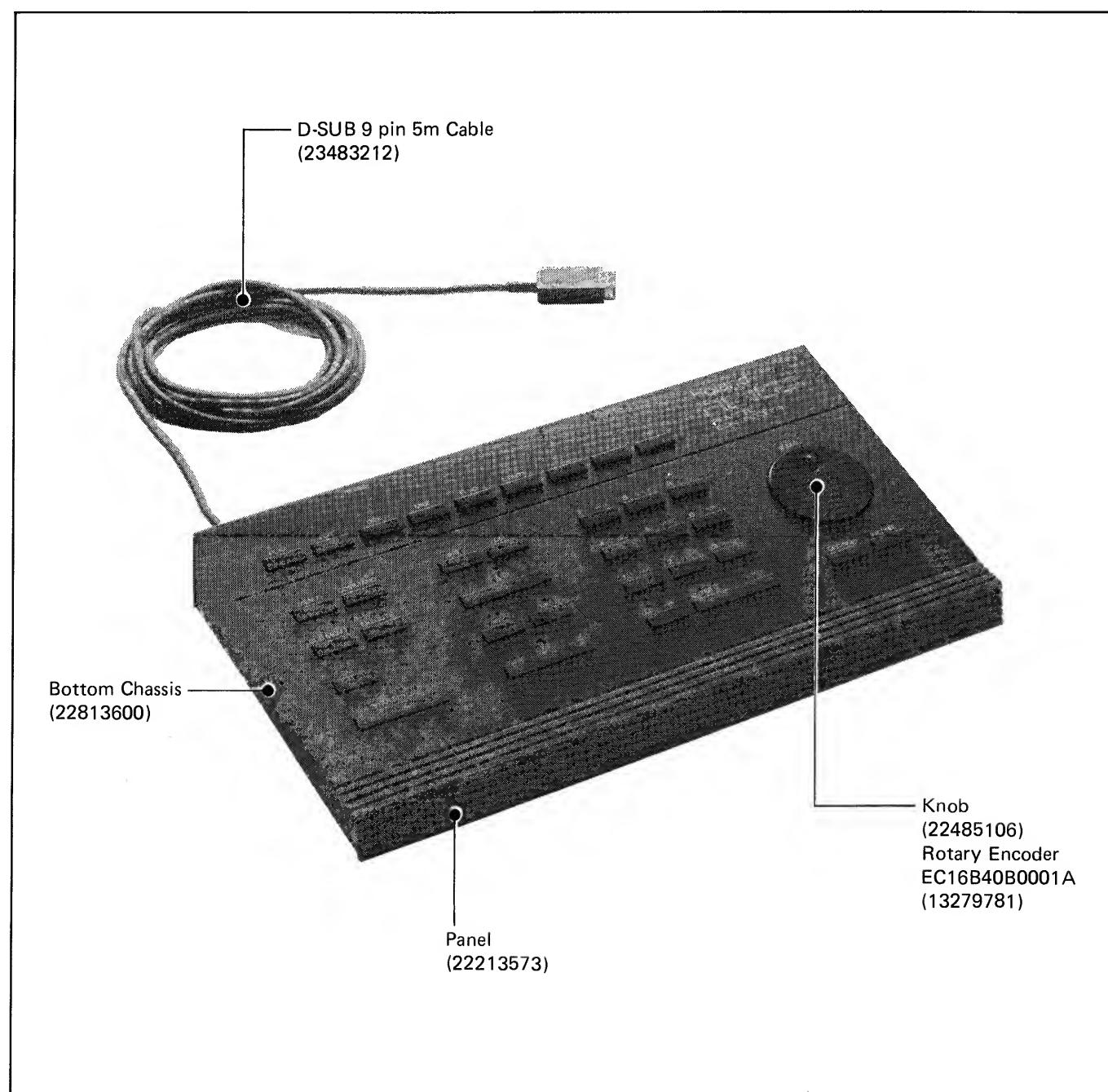


RC-100

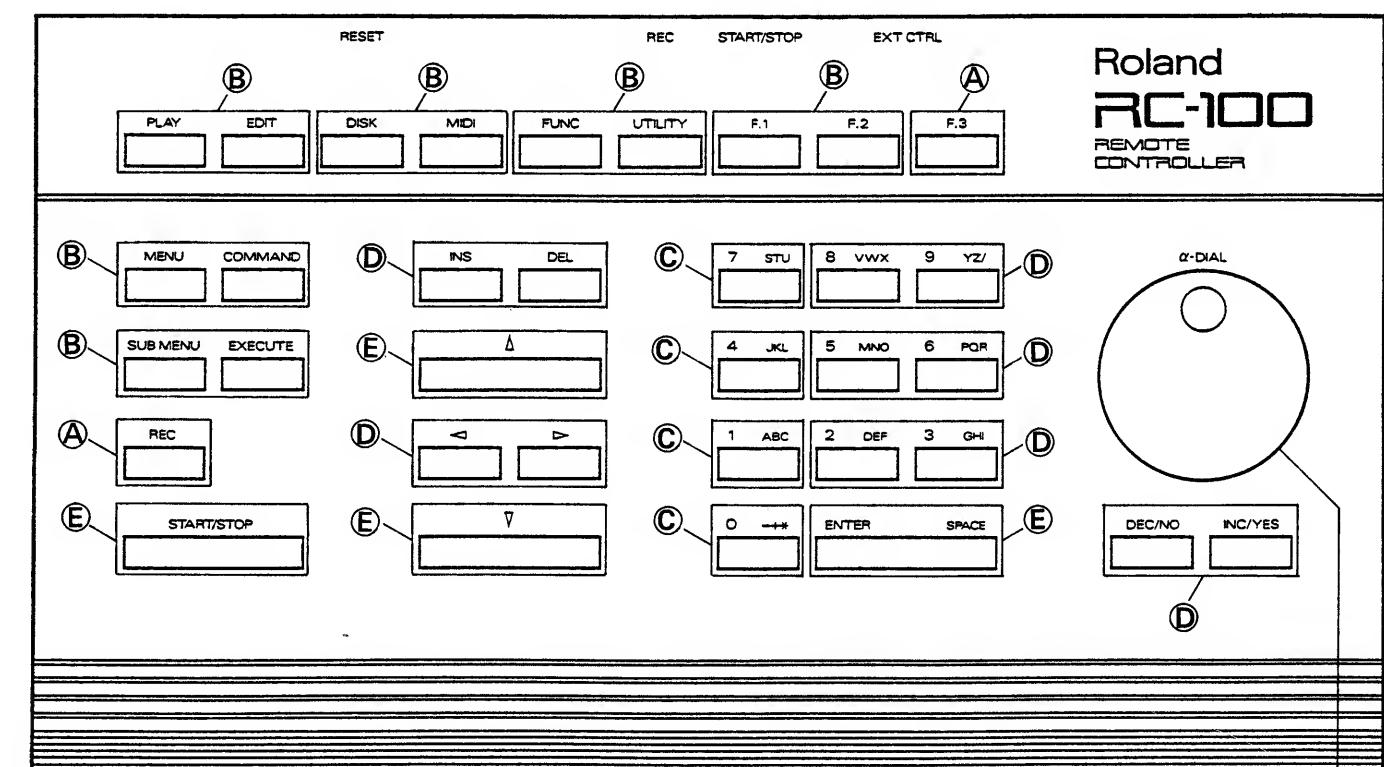
SERVICE NOTES *First Edition*

SPECIFICATIONS

Dimensions	: 300 (W) x 173 (D) x 53 (H) mm 11-13/16 x 6-13/16 x 2-1/16 in.
Consumption	: 1W
Weight	: 1.4 kg
Connection Cord	: 5.0 m x 1
Connection Connector	: D SUB, 9 PIN

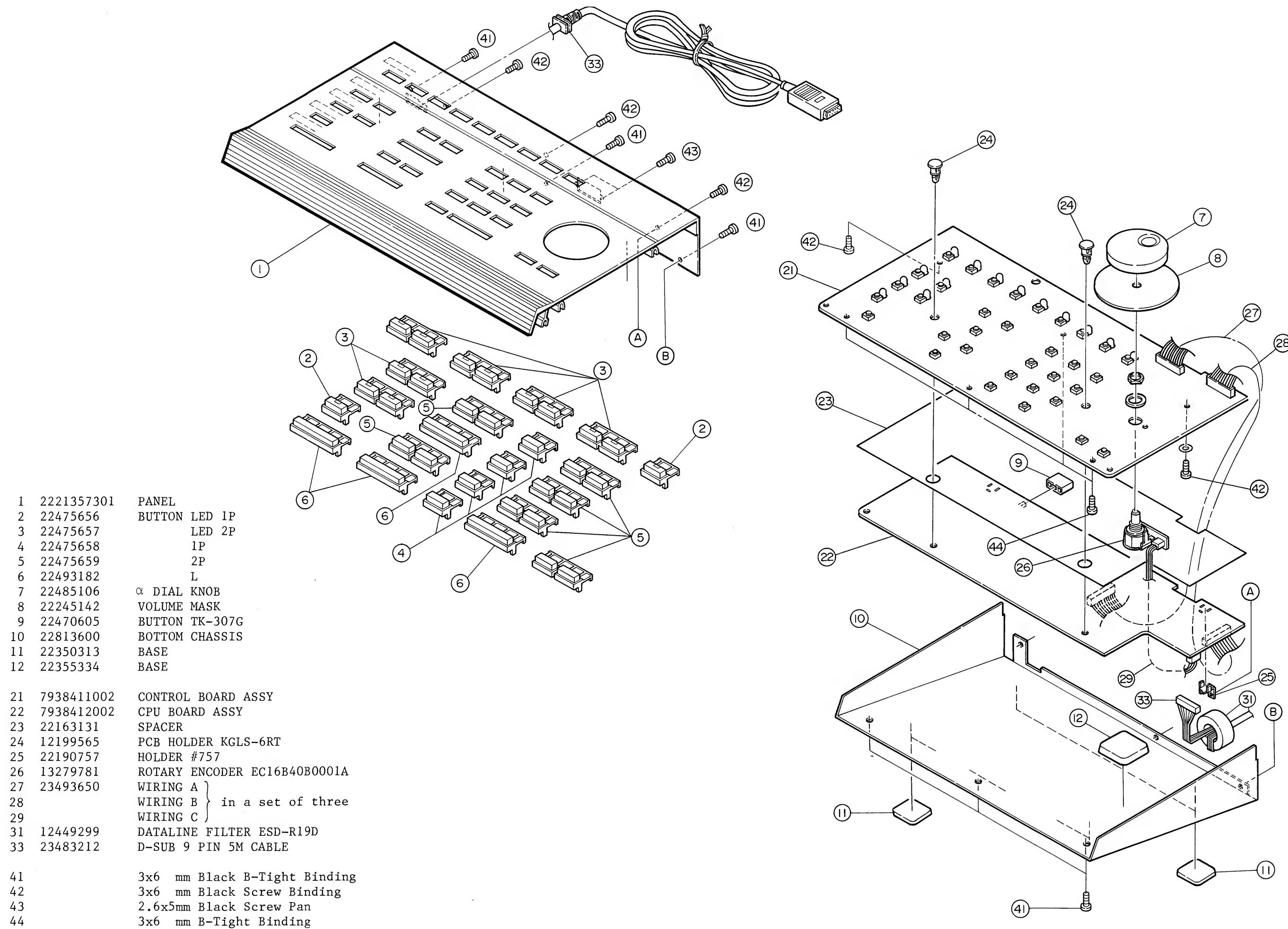


BUTTON			SWITCH	
Ⓐ 22475656	BUTTON	LED 1P	13169633	SKHHAD039A
Ⓑ 22475657	BUTTON	LED 2P		
Ⓒ 22475658	BUTTON	1P		
Ⓓ 22475659	BUTTON	2P		
Ⓔ 22493182	BUTTON	L		



Knob
(22485106)
Rotary Encoder
EC16B40B0001A
(13279781)

EXPLODED VIEW



PARTS LIST

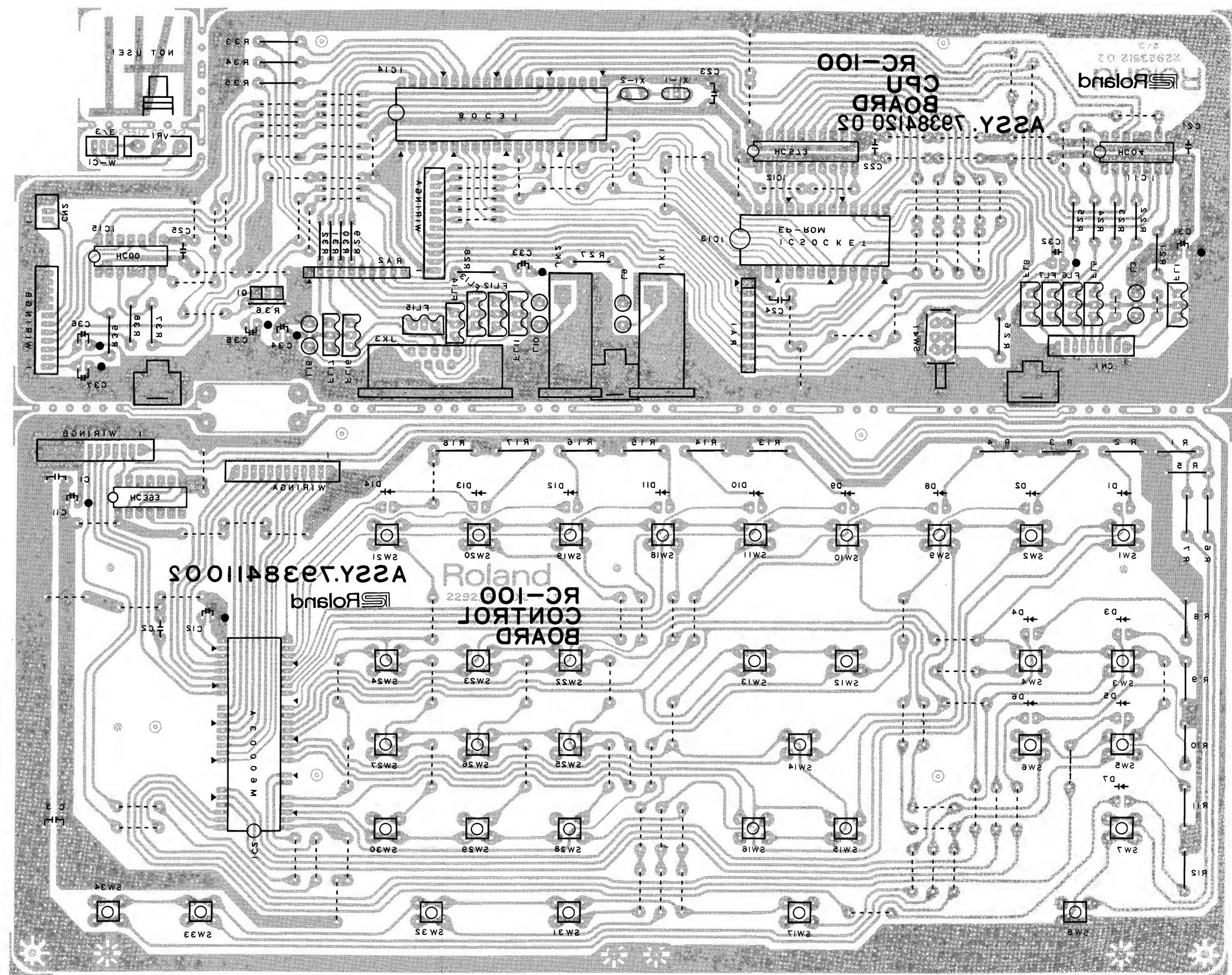
<u>CASE</u>			<u>WIRING ASSY</u>		
22213573	Panel		2349365001	Wiring A	120mm 12 pin
<u>BUTTON, KNOB</u>				Wiring B in a set of three	120mm 12 pin
22475656	Button LED 1P	REC, F-3		Wiring C	150mm 3 pin
22475657	Button LED 2P	PLAY EDIT:DISK MIDI;FUNC UTILITY:F-1 F-2:MENU COMMAND;SUB MENU EXECUTE			
22475658	Button 1P	7, 4, 1, 0	<u>MISCELLANEOUS</u>		
22475659	Button 2P	INS DEL:◀ ▶ :8 9:5 6:2 3:DEC/NO INC/YES	12389800	Ceramic Resonator	KMFC1005T1
22493182	Button L	START/STOP, ▲, ▼, ENTER	23483212	D-SUB Cable 9 pin 5m	
22470605	Button TK-307 G	RESET	12199565	PCB Holder	KGLS-6RT
22485106	Knob	α DIAL	22190757	Holder #757	
<u>PCB ASSY</u>			22355334	Base	
79384110	CONTROL Board	(pcb 22923512)	12449299	Data Line Filter	ESD-R19D
79384120	CPU Board w/rotary encoder board	(pcb 22923512)			
<u>IC</u>					
15179253	MSM80C31RS	CPU			
15229861	M60003A-0117SP	Gate Array			
15169515B0	M74HC00P	quad 2-input NAND gate			
15169514B0	M74HC04P	hex inverter			
15169555B0	M74HC393P	dual 4-bit binary counter			
15169544B0	M74HC573P	3 state octal D-type latch			
15179855	LH5764-20	one time P-ROM			
<u>TRANSISTOR</u>					
15129150	DTC 114EF	with built-in resistors			
<u>LED</u>					
15029222	SLR-55VC3F	(red)			
<u>SWITCH</u>					
13169633	SKHHAD039A	tact			
13279781	EC16B40B0001A	rotary encoder			
13129559	SPPJ 2	push			
<u>RESISTOR ARRAY</u>					
13919140	RGLD 8-103J	10KΩ x 8			
13919188	RGLD 9-103J	10KΩ x 9			
<u>CONNECTOR</u>					
13429203	DELC-J9PAF-10L9	D-SUB 9 pin			
13439330	IL-S-3P-S2T2-EF				
13439423	M84-09-70-114P				
<u>JACK</u>					
13449125	HLJ0520-01-110	REC.START/STOP			
<u>INDUCTOR</u>					
22445240	BL02RNS-R62	ferrite beads			
13529158	ZJSC-2R2-101	EMI filter			

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

A
B
C
D
E
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G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V

CPU BOARD
ASSY 79384120
(pcb 22923512)

View from foil side

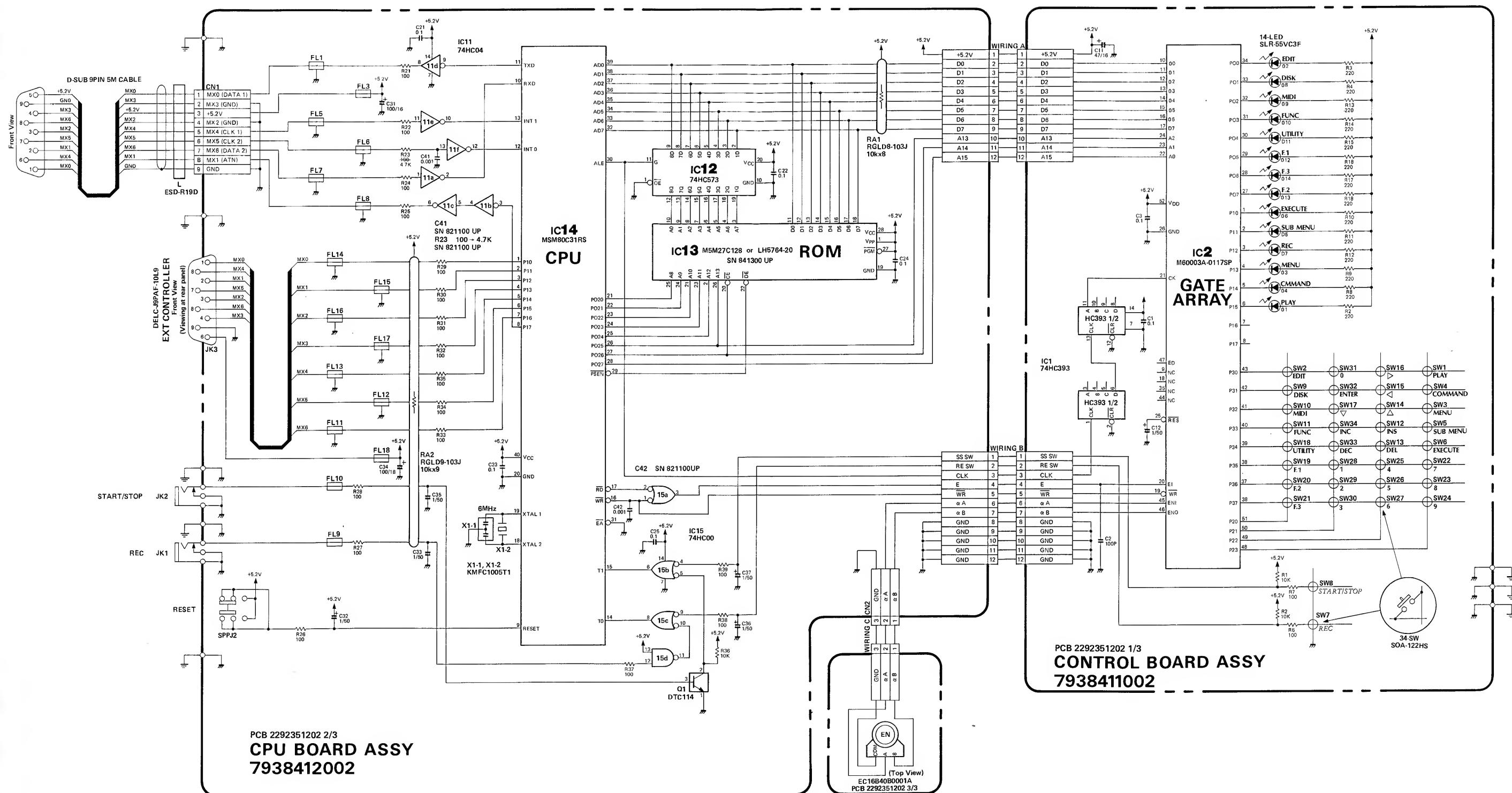


CONTROL BOARD
ASSY 79384110
(pcb 22923512)

View from foil side

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

CIRCUIT DIAGRAM

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T

CHANGE INFORMATION

PROM IC13 CPU Board

From EP-ROM M5M27C128-2 to compatible One Time P-ROM (OTP-ROM) LH5764-20.

Eff. SN841300

Replacement: OTP-ROM LH5764-20 (PN 15179855) only.

Data Line Filter

From ESD-R-25D to smaller size ESD-R-19D (compatible)

Eff. SN841300

Replacement: ESD-R-19D (PN 12449299) only.

C41, C42 and R23 CPU Board

Add two 0.001 μ F capacitors and increase R23 to 4.7k Ω to prevent accumulation of statics, which causes the CPU to go hangup.

Note that the CPU can escape hangup status when RESET switch is pressed.

Eff. SN821100

変更案内

EP-ROM CPU BOARD IC13 M5M27C128-2を ONE TIME P-ROM LH5764-20 に変更

実施製番 SN841300

サービスパーツは OTP-ROM LH5764 (PART No. 15179855) を支給します。

データラインフィルターを小型のものに変更

ESD-R-25D → ESD-R-19D (互換性有り)

実施製番 SN841300

サービスパーツは ESD-R-19D (PART No. 12449299) を支給します。

CPU BOARD C41, C42 (0.001 μ F) 追加, R23 (100 Ω) を 4.7 K Ω に変更

理由 静電気対策

静電気により CPUが誤動作し、パネルの SWの入力を一切受け付けなくなる、これを防止するため。

(但し、RESET SW を押すことにより、上記症状は取り除かれ正常にもどります)

実施製番 SN821100